

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A portable data carrier ~~(10), which comprises comprising:~~
a carrier storage (12) for storing data containing a biometric template ~~(13)~~ and an
application-specific ~~function; function (15) as well as~~

carrier communication means ~~(11)~~ for contactless receipt and transmission of ~~data; data;~~
and

~~characterised in that it further comprises~~ carrier processing means (16) for comparing the
biometric template with a biometric sample (23) received from an external arrangement (20), and
~~that it is arranged to complete a handshake process with the external arrangement as well as~~
perform the application-specific function and transmit a result of the same to the external
arrangement, only if the biometric sample matches the biometric template.

2. (Currently Amended) A portable data carrier (10) as claimed in claim 1, wherein the
application-specific function (15) comprises retrieving ~~from the carrier storage (12)~~ application-
specific information (14) ~~stored therein in the carrier storage~~, said result containing the
application-specific information.

3. (Currently Amended) A portable data carrier (10) as claimed in claim 1, wherein the
application-specific function (15) comprises executing program code stored in the carrier storage
(12).

4. (Currently Amended) A portable data carrier (10) as claimed in claim 1, arranged to
perform the application-specific function (15) and transmit said result of the same to the external
arrangement ~~(20)~~ in response to an enquiry received from the external arrangement.

5. (Currently Amended) A portable data carrier (10) as claimed in claim 1, wherein the
biometric template ~~(13)~~ corresponds to a digital image containing individual-specific
information.

6. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, wherein the biometric template ~~(13)~~-defines at least part of a fingerprint.

7. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, wherein the biometric template ~~(13)~~-corresponds to feature reference data.

8. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, arranged to store in the carrier storage ~~(12)~~-a threshold value which defines to what degree the biometric sample ~~(23)~~-should correspond to the biometric template ~~(13)~~-for a match to be considered to exist.

9. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, ~~which~~ wherein the data carrier is a smart card.

10. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, ~~which~~ wherein the data carrier is an electronic passport.

11. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, ~~which~~ wherein the data carrier is a mobile phone.

12. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, ~~which~~ wherein the data carrier is a PDA (Personal Digital Assistant).

13. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, arranged to prevent the external arrangement ~~(20)~~-from accessing the biometric template~~(13)~~.

14. (Currently Amended) A portable data carrier ~~(10)~~-as claimed in claim 1, arranged to communicate with the external arrangement ~~(20)~~-only for a predetermined time after the match has been considered to exist.

15. (Currently Amended) A portable data carrier (10)-as claimed in claim 1, arranged to transmit a presence signal in response to a search signal received from the external arrangement (20)-to confirm its presence within a communication range of the external arrangement.

16. (Currently Amended) A portable data carrier (10)-as claimed in claim 1, arranged to prevent all transmission of data from the same until a match is considered to exist.

17. (Currently Amended) A method of transferring data by means of a portable data carrier (10)-which comprises a carrier storage (12)-for storing data containing a biometric template (13)-and an application-specific function (15)-as well as carrier communication means (11)-for contactless receipt and transmission of data, characterised by the method comprising:

receiving a biometric sample (23) from an external arrangement (20) (B3),
comparing ~~by carrier-processing means (16) in the data carrier~~ the biometric sample with the biometric template (B4), and

completing a handshake process with the external arrangement as well as performing the application-specific function and transmitting a result of the same to the external arrangement (B10), only if the biometric sample matches the biometric template.

18. (Currently Amended) A method as claimed in claim 17, wherein performing the application-specific function (15)-comprises retrieving ~~from the carrier storage (12)~~ application-specific information (14)-stored therein in the carrier storage, said result containing the application-specific information.

19. (Currently Amended) A method as claimed in claim 17, wherein performing the application-specific function (15)-comprises executing program code stored in the carrier storage (12).

20. (Currently Amended) A method as claimed in claim 17, comprising performing the application-specific function (15)-and transmitting said result of the same to the external arrangement (20) (B10)-in response to an enquiry received from the external arrangement (B9).

21. (Currently Amended) A method as claimed in claim 17, wherein the biometric template ~~(13)~~ corresponds to a digital image containing individual-specific information.

22. (Currently Amended) A method as claimed in claim 17, wherein the biometric template ~~(13)~~ defines at least part of a fingerprint.

23. (Currently Amended) A method as claimed in claim 17, wherein the biometric template ~~(13)~~ corresponds to feature reference data.

24. (Currently Amended) A method as claimed in claim 17, further comprising evaluating a result of the comparison against a threshold value which is stored in the carrier storage and which defines to what degree the biometric sample should correspond to the biometric template for a match to be considered to exist ~~(B5)~~.

25. (Currently Amended) A method as claimed in claim 17, wherein the data carrier ~~(10)~~ is a smart card.

26. (Currently Amended) A method as claimed in claim 17, wherein the data carrier ~~(10)~~ is an electronic passport.

27. (Currently Amended) A method as claimed in claim 17, wherein the data carrier ~~(10)~~ is a mobile phone.

28. (Currently Amended) A method as claimed in claim 17, wherein the data carrier ~~(10)~~ is a PDA (Personal Digital Assistant).

29. (Currently Amended) A method as claimed in claim 17, further comprising preventing communication with the external arrangement ~~(20)~~ when a predetermined time, after a match has been considered to exist ~~(B5)~~, has elapsed.

30. (Currently Amended) A method as claimed in claim 17, further comprising receiving a search signal from the external arrangement ~~(20)~~ ~~(B1)~~ and, in response to the search signal, transmitting a presence signal ~~(B2)~~ to confirm its presence within a communication range of the external arrangement.

31. (Currently Amended) A method as claimed in claim 17, further comprising preventing all transmission of data from the portable data carrier ~~(10)~~ until a match is considered to exist ~~(B5)~~.

32. (Currently Amended) A computer readable storage medium comprising a computer program with instructions which are arranged, in execution, to carry out the method as claimed in claim 17.

33. (Currently Amended) An external arrangement ~~(20)~~ comprising:
arrangement communication means ~~(21)~~ for contactless receipt and transmission of data, and
a sensor ~~(25)~~ for recording a biometric sample, sample (23), ~~characterised in that it is wherein the arrangement means is~~ arranged to transmit the biometric sample to a portable data carrier ~~(10)~~, and ~~that it is~~ arranged to complete a handshake process with the portable data carrier and receive from the portable data carrier a result of an application-specific function ~~(15)~~ performed in the portable data carrier, only if the biometric sample matches a biometric template ~~(13)~~ stored in the portable data carrier.

34. (Currently Amended) An external arrangement ~~(20)~~ as claimed in claim 33, further arranged to receive as said result application-specific information ~~(14)~~ stored in the data carrier.

35. (Currently Amended) An external arrangement ~~(20)~~ as claimed in claim 33, further arranged to transmit an enquiry to the portable data carrier ~~(10)~~ and receive said result in response to said enquiry.

36. (Currently Amended) An external arrangement (20) as claimed in claim 33, wherein the biometric sample (23) corresponds to a digital image containing individual-specific information.

37. (Currently Amended) An external arrangement (20) as claimed in claim 33, wherein the biometric sample (23) defines at least part of a fingerprint.

38. (Currently Amended) An external arrangement (20) as claimed in claim 33, wherein the biometric sample (23) corresponds to feature data.

39. (Currently Amended) An external arrangement (20) as claimed in claim 33, further arranged to transmit a search signal and, in response to the search signal, receive a presence signal from the portable data carrier (10) to detect its presence within a communication range of the external arrangement.

40. (Currently Amended) An external arrangement (20) as claimed in claim 33, further arranged to transmit the biometric sample (23) according to a predetermined schedule until a match is considered to exist.

41. (Currently Amended) A method of transferring data by means of an external arrangement (20) which comprises arrangement communication means (21) for contactless receipt and transmission of data, and a sensor (25), comprising recording a biometric sample (23) by means of the sensor (25), characterised in that it further comprises the method comprising:

transmitting the biometric sample to a portable data carrier (10) (U4), and
completing a handshake process with the portable data carrier and receiving from the portable data carrier a result of an application-specific function (15) performed in the portable data carrier (10), only if the biometric sample matches a biometric template (13) stored in the portable data carrier.

42. (Currently Amended) A method as claimed in claim 41, comprising receiving as said result application-specific information ~~(14)~~ stored in the data carrier ~~(10)~~ ~~(U10)~~.

43. (Currently Amended) A method as claimed in claim 41, further comprising transmitting an enquiry to the portable data carrier ~~(10)~~ ~~(U9)~~ and receiving said result in response to said enquiry ~~(U10)~~.

44. (Currently Amended) A method as claimed in claim 41, further comprising transmitting a search signal ~~(U1)~~ and, in response to the search signal, receiving a presence signal ~~(U2)~~ from the portable data carrier ~~(10)~~ to detect its presence within a communication range of the external arrangement ~~(20)~~.

45. (Previously Presented) A method as claimed in claim 41, further comprising transmitting the biometric sample according to a predetermined schedule until a match is considered to exist.

46. (Currently Amended) A computer readable storage medium comprising a computer program with instructions which are arranged in execution to carry out the method as claimed in claim 41.

47. (Currently Amended) A system for transferring data, comprising
a portable data carrier ~~(10)~~, which comprises a carrier storage ~~(12)~~ for storing data containing a biometric template ~~(13)~~ and an application-specific function ~~(15)~~ as well as carrier communication means ~~(11)~~ for contactless receipt and transmission of data, data, and
an external arrangement ~~(20)~~ comprising arrangement communication means ~~(21)~~ for contactless receipt and transmission of data, and a sensor ~~(25)~~ for recording a biometric sample ~~(23)~~,

~~characterised in that~~

wherein the external arrangement is arranged to transmit the biometric sample to the portable data carrier ~~(10)~~,

the portable data carrier further comprises carrier processing means (16) for comparing the biometric template with the biometric sample (23) received from the external arrangement (20), and

the portable data carrier and the external arrangement are arranged to complete a mutual handshake process, the portable data carrier is arranged to perform the application-specific function and transmit a result of the same to the external arrangement, and the external arrangement is arranged to receive the result from the portable data carrier, only if the biometric sample matches the biometric template.

48. (Currently Amended) A method of transferring data between

a portable data carrier (10) which comprises a carrier storage (12) for storing data containing a biometric template (13) and an application-specific function (15), as well as carrier communication means (11) for contactless receipt and transmission of data, and

an external arrangement (20) which comprises arrangement communication means (21) for contactless receipt and transmission of data, and a sensor (25), the method comprising:

comprising recording a biometric sample (23) by means of the sensor; sensor (U3), characterised in that it further comprises

transmitting from the external arrangement the biometric sample to the portable data carrier (10) (U4), carrier;

receiving in the portable data carrier the biometric sample (23) from the external arrangement (20) (B3); arrangement;

comparing by carrier processing means (16) in the data carrier the biometric sample with the biometric template (B4), template; and

completing a handshake process between the portable data carrier and the external arrangement, performing in the portable data carrier the application-specific function and transmitting a result of the same to the external arrangement (B10), as well as receiving in the external arrangement the result from the portable data carrier, only if the biometric sample matches the biometric template.